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10/774,473	02/10/2004	Noriyoshi Kurotsu	00862.023450. 9148	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/774,473	KUROTSU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Lennin R. Rodriguez	2625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 10 February 2004. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 10 February 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
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Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/27/2004 and 10/19/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5)

because they include the following reference character(s) not mentioned in the

description:

(1) 1215 in Fig. 12;

(2) 1701, 1702, 1703, 1704 and 1705.

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to

the specification to add the reference character(s) in the description in compliance with

37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the

application. Any amended replacement drawing sheet should include all of the figures

appearing on the immediate prior version of the sheet, even if only one figure is being

amended. Each drawing sheet submitted after the filing date of an application must be

labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37

CFR 1.121(d). If the examiner does not accept the changes, the applicant will be

notified and informed of any required corrective action in the next Office action. The

objection to the drawings will not be held in abeyance.

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5)

because they do not include the following reference sign(s) mentioned in the

description:

(1) page 21, lines 11 and 15 and page 22, lines 7, 11 and 14, "11";

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(2) page 26, line 5, "300".

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

- 3. The drawings are objected to because
 - (1) 1510 in Fig. 15, "bite" should be either byte or bit --.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an

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application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to under 37 CFR 1.83(a). Figure 15 must show every feature of the invention specified in the claims. Therefore, the data transmission step of transmitting to said image-forming device the print data in the second spool file in segments if it is determined in said data determination step that the amount of data is below the threshold must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. For the limitation in this claim it appears to the examiner that the only option to transmit data is, if the threshold is below the acceptable value, while in Figure 15 it is shown that it can transmit either if it is below or more than the threshold.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

- 5. The disclosure is objected to because of the following informalities:
- (1) page 31, lines 16-18, page 34, line 11 and page 35, lines 2 and 3, "bites" should be either bytes or bits --;
- (2) page 32, lines 3 and 4, page 34, line 23 and page 35, line 13, "bite" should be either byte or bit –.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 6-7, 17-18 and 22 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps in claim 6 are: in the case that the data size is more than the predetermined threshold it also transmit data to the image forming device.

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Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the

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conditions and requirements of this title.

9. Claims 1-10 and 22 are rejected under 35 U.S.C. 101 because the claimed

invention is directed to non-statutory subject matter. A "print control program" is being

recited; however a "print control program" as presented in the claims is directed to

software per se. This subject matter is not limited to that which falls within a statutory

category of invention because it is limited to a process, machine, manufacture, or a

composition of matter. Software is a function descriptive material and a function

descriptive material is non-statutory subject matter.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

11. Claims 1-3, 8-14 and 19-21 are rejected under 35 U.S.C. 102(b) as being

anticipated by Nakatsuma et al. (US Patent 6,115,132).

(1) regarding claims 1, 11 and 12:

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Nakatsuma '132 discloses an information processing apparatus (102 in Fig. 1) for transmitting print data to an image-forming device and recording an image (column 5, lines 28-31), the apparatus comprising:

a spooling unit (801 in Fig. 9) for further re-spooling, as a second spool file, print data spooled by an operating system (column 5, lines 65-66) as a first spool file and then once de-spooled (column 12, lines 1-28, where data is being spooled by the Windows spooler then in column 13, lines 52-58 the data already spooled in a first spool file and stored in a virtual spooler is spooled); and

a transmission unit (202 in Fig. 2) for reading out and transmitting to said imageforming device a portion of said print data re-spooled as the second spool file during respooling (column 14, lines 1-5, where after performing the spooling the data is send to a network printer representing the destination or alternate device, and where the data being sent is being interpreted as a portion of data) by said spooling unit (801 in Fig. 9).

(2) regarding claims 2 and 13:

Nakatsuma '132 further discloses an attaching unit for attaching to the print data re-spooled by said spooling unit a first job identifier (column 13, lines 20-43) and a second job identifier different from the first job identifier (column 16, lines 50-58 and column 24, lines 36-39, where an ID different from the first one its being created); and

a managing unit (710 in Fig. 7) for managing jobs based on the second job identifier (columns 16-17, lines 58-67 and 1-7 respectively).

(3) regarding claims 3 and 14:

Nakatsuma '132 further discloses wherein the first job identifier is an identifier issued via the operating system (column 6, lines 59-67 and column 13, lines 20-23, where the job ID its being obtained from the virtual print server service which the OS is controlling).

(4) regarding claims 8 and 19:

Nakatsuma '132 further discloses a retransmission unit (client PC acts as a retransmission unit, 102 in Fig. 1) for retransmitting to said image-forming device said print data re-spooled as the second spool file by said spooling unit before the respooling by said spooling unit is finished if transmission to said image-forming device of the print data is stalled (column 29, lines 24-36 and column 30, lines 26-29, where if an error occurs is being interpreted as when the data is stalled).

(5) regarding claims 9 and 20:

Nakatsuma '132 further discloses a display unit (207 in Fig. 2) for displaying a status of said print data re-spooled as the second spool file by said spooling unit (column 6, lines 37-39); and

if print data for which transmission to said image-forming device is interrupted due to error is displayed by said display unit, an accepting unit for accepting an instruction to retransmit such print data (column 30, lines 47-55).

(6) regarding claims 10 and 21:

Nakatsuma '132 further discloses wherein said retransmission unit further comprises an identifier for identifying print data for retransmission using the second job identifier (column 29, lines 33-36).

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Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

13. Claims 4-5 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Nakatsuma et al. (US Patent 6,115,132) in view of Kujirai et al. (US Patent

6,594033).

(1) regarding claims 4 and 15:

Nakatsuma '132 discloses all the subject matter as described above except

wherein said transmission unit comprises a segmented transmission unit for dividing

and transmitting print data in the second spool file to said image-forming device in

segments.

However, Kujirai '033 teaches wherein said transmission unit comprises a

segmented transmission unit for dividing and transmitting print data in the second spool

file to said image-forming device in segments (column 4, lines 53-61, where the print

data is divided into file units).

Therefore it would have been obvious to one of ordinary skill in the art at the time

the invention was made to have a transmission unit comprises a segmented

transmission unit for dividing and transmitting print data in the second spool file to said

image-forming device in segments as taught by Kujirai '033 in the system of Nakatsuma

'132. With this the system can perform more efficiently since it does not consume many resources of transmitting large amounts of data at a certain time.

(2) regarding claims 5 and 16:

Nakatsuma '132 discloses all the subject matter as described above except said transmission unit comprises a write finish detection unit for detecting an end of spooling of a spool file by said spooling unit; and

said segmented transmission unit transmits the print data in the second spool file to said image-forming device in segments if a spool file write finish is not detected by said write finish detection unit.

However, Kujirai '033 teaches said transmission unit comprises a write finish detection unit for detecting an end of spooling of a spool file by said spooling unit (column 9, lines 58-64); and

said segmented transmission unit transmits the print data in the second spool file to said image-forming device in segments if a spool file write finish is not detected by said write finish detection unit (column 9, lines 61-67, where if it is not detected the job end).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have a transmission unit comprises a write finish detection unit for detecting an end of spooling of a spool file by said spooling unit and said segmented transmission unit transmits the print data in the second spool file to said image-forming device in segments if a spool file write finish is not detected by said write finish detection unit as taught by Kujirai '033 in the system of Nakatsuma '132. With this Art Unit: 2625

the system can perform more efficiently since it does not consume many resources of transmitting large amounts of data at a certain time.

Double Patenting

14. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

15. Claims 1-3, 11-14 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-3, 7, 13-15 of copending Application No. 10/775090. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-3 in the present application are directed towards print data spooled by an operating system, where as claims 1-3 of the referenced copending application are directed towards spooling print data created and spooled via a print data creation module. It appears to the examiner that these

limitations (operating system in view of creation module) are obvious variations of each other since a creation module could reasonably be an operating system.

For example regarding claim 1 with regards to application 10/775090:

A print control program executed by an information processing apparatus that transmits print data to an image-forming device and records an image (claim 1, lines 1-2), the program comprising:

code for causing said information processing apparatus to execute a spooling step of further re-spooling, as a second spool file, print data spooled by an operating system as a first spool file (claim 1, lines 3-4); and

code for causing said information processing apparatus to execute a transmission step of reading out and transmitting to the image-forming device a portion of the print data re-spooled as the second spool file during re-spooling in said spooling step (claim 1, lines 5-8).

The difference between '090 and the present application is that the system is having print data spooled by an operating system. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teachings of '090 application as a general teaching for a print control program to perform the same functions as claimed by the present application and do it with an operating system because it would be more efficient for the system to do it that way.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lennin R. Rodriguez whose telephone number is (571) 270-1678. The examiner can normally be reached on Monday - Thursday 7:30am - 6:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lennin Rodriguez 10/15/07

> KING Y. POON SUPERVISORY PATENT EXAMINER